

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/024868

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/09

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, Sequence Search, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | DATABASE Geneseq [Online]<br>2 July 2002 (2002-07-02), "Streptococcus polypeptide SEQ ID NO 9188."<br>XP002334315<br>retrieved from EBI accession no.<br>GSN:ABP30006<br>Database accession no. ABP30006<br>the whole document                     | 24-26                 |
| A          | -& DATABASE EPO Proteins [Online]<br>2 February 2004 (2004-02-02), "Sequence 7466 from Patent WO0234771."<br>XP002334316<br>retrieved from EBI accession no.<br>EPOP:CQ650509<br>Database accession no. CQ650509<br>the whole document<br><br>-/-- | 3,10-17               |

☒ Further documents are listed in the continuation of box C..

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

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- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

28.10.05

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Perez, C

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
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| Category *   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| X  | -& WO 02/34771 A (CHIRON S.P.A; THE INSTITUTE FOR GENOMIC RESEARCH; TELFORD, JOHN; MASIG) 2 May 2002 (2002-05-02)<br>claims 1-28<br>page 2, line 1 - page 10, line 16<br>-----   | 1-17,<br>21-27        |
| X  | DATABASE Geneseq [Online]<br>19 June 2003 (2003-06-19), "Protein encoded by Prokaryotic essential gene #31978."<br>XP002334512<br>retrieved from EBI accession no.<br>GSN:ABU46451<br>Database accession no. ABU46451<br>the whole document  | 24-26                 |
| X  | -& WO 02/077183 A (ELITRA PHARMACEUTICALS, INC; WANG, LIANGSU; ZAMUDIO, CARLOS; MALONE, C) 3 October 2002 (2002-10-03)<br>claim 25<br>-----  | 24-26                 |
| X  | DATABASE Geneseq [Online]<br>2 December 2004 (2004-12-02), "S. pyogenes - hyperimmune system reactive antigen Spy0269."<br>XP002334513<br>retrieved from EBI accession no.<br>GSN:ADR83896<br>Database accession no. ADR83896<br>the whole document  | 24-26                 |
| E  | -& WO 2004/078907 A (INTERCELL AG; MEINKE, ANDREAS; NAGY, ESZTER; WINKLER, BIRGIT; GELBMANN) 16 September 2004 (2004-09-16)<br>claim 11<br>-----   | 24-26                 |
| A  | FERRETTI J J ET AL: "Complete genome sequence of an M1 strain of Streptococcus pyogenes"<br>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA; NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US,<br>vol. 98, no. 8,<br>10 April 2001 (2001-04-10), pages<br>4658-4663, XP002168716<br>ISSN: 0027-8424<br>the whole document<br>-----<br>-/-- | 1-27                  |

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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| A          | <p>OLIVE C ET AL: "Protection of mice from group A streptococcal infection by intranasal immunisation with a peptide vaccine that contains a conserved M protein B cell epitope and lacks a T cell autoepitope"</p> <p>VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 20, no. 21-22, 21 June 2002 (2002-06-21), pages 2816-2825, XP004357806</p> <p>ISSN: 0264-410X</p> <p>the whole document</p> <p>-----</p> | 1-27                  |

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